

## ABSTRACT OF THE DISCLOSURE

A device for detecting a passing object of the present invention includes: a light source (18a); a light reflecting plate (14a) that reflects laser light (L) emitted from the light source (18a); and a light receiving sensor (20a) that receives laser light reflected by the light reflecting plate (14a). The light reflecting plate (14a) is reflecting plate that retroreflects incident light. In a device for measuring the velocity of a passed object of the present invention, two of the devices for detecting the passing object are disposed in different locations along a passing path through which the passing object passes. A passing velocity of the passed object is measured by using a time difference that is detected by the two devices for detecting the passing object. The device that detects the passing of the passing object has a simple configuration, and there are few restrictions on the locations at which the device may be disposed.